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### [\[PS\] Engineering Excellence: DEC OSF/1 Symmetric Multiprocessing](#)

JA Hall - 1994 - users.cs.cf.ac.uk

... Under semaphores (also known as "Mutexes") are "**Fast Mutex**", "Recursive **Mutex**" and "Blocking **Mutex**". Each one of these locks has its place inside the kernel. 3.2.2.1. ... 3.2.2.3. **Fast Mutex** The **Fast Mutex** allows a single thread to lock the data structure. ...

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### [\[PDF\] A Portable Kernel-Mode Resource Manager on Windows 2000 Platforms](#)

P Hadjidoukas, V Barekas... - Proc. of the Twelfth ..., 2000 - Citeseer

... On the other hand, once a **Fast Mutex** has been acquired, the IRQL is raised at APC\_LEVEL, thus the APCs to the thread are blocked. If the thread fails to acquire the **Fast Mutex**, it is put into a wait state, releasing the processor. ...

[Cited by 5](#) - [Related articles](#) - [View as HTML](#) - [All 3 versions](#)

### [Towards extremely fast context switching in a block-multithreaded processor](#)

W Grunewald... - euromicro, 1996 - computer.org

... The units execute different threads of control. Therefore they access different activation frames and thus different register sets. A **fast** context switch is realized by simply switching to another register set. ... Each **mutex** variable exists only once. ...

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### [\[PDF\] Internals of the RT Patch](#)

S Rostedt... - Proceedings of the Linux Symposium, 2007 - kernel.org

... applications. Linux implements a user **mutex** that can create, acquire, and release the **mutex** lock completely in user space. This type of **mutex** is known as a futex (**fast mutex**) [1]. The futex only enters the kernel on contention. RT ...

[Cited by 35](#) - [Related articles](#) - [View as HTML](#) - [All 5 versions](#)

### [Fast mutual exclusion for uniprocessors](#)

BN Bershad, DD Redell... - Proceedings of the fifth ..., 1992 - portal.acm.org

Page 1. **Fast** Mutual Exclusion for Uniprocessors Brian N. Bershad ... Mutual exclusion mechanisms such as P, V [Dijkstra 68a] and acquire-**mutex**, release-**mutex** [Birrell 91] are implemented using lower-level operations such as Test-And-Set that ...

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### [Fast algorithms for the simulation of polygonal particles](#)

A Schinner - Granular Matter, 1999 - Springer

Page 1. Granular Matter 2, 35–43 © Springer-Verlag 1999 **Fast** algorithms for the simulation of polygonal particles Alexander Schinner Abstract Three ... polygons. This makes **fast** simulations of polygonal assemblies possible. The ...

[Cited by 41](#) - [Related articles](#) - [BL Direct](#) - [All 3 versions](#)

### [Read/write based fast-path transformation for FCFS mutual exclusion](#)

P Jayanti, S Petrovic... - SOFSEM 2005: Theory and Practice of ..., 2005 - Springer

... The winner  $q$  of this competition proceeds to compete with the **fast-path** process  $r$  through the 2-**mutex** algorithm. ... When successful,  $p$  enters another competition, where it competes with the **fast-path** process via the 2-**mutex** algorithm (Line 13). ...

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